LITHOLOGIC LOG

Page <u>1</u> of <u>9</u>

LOCATION MAP:

BLM-5-527 •

NORTH

• BLM-1-435

NOT TO SCALE

NW 1/4 NW 1/4 NW 1/4 NW 1/4 S 33 T 20S R 3E

SITE ID: NASA-WSTF LOCATION ID: BLM-5-527

SITE COORDINATES (ft.):

N <u>232891.85</u> E <u>403363.61</u>

GROUND ELEVATION (ft. MSL): 4551.80 (BRASS CAP) STATE: NEW MEXICO COUNTY: DOÑA ANA

DRILLING METHOD: <u>AIR-FOAM ROTARY</u>

DRILLING CONTR.: LARJON

DATE STARTED: 4 MARCH 1988 DATE COMPLETED: 4 APRIL 1988

FIELD REP.: COOPER

COMMENTS: 0'-100' 8 3/4", 0'-100' 14 3/4" ream, 100'-560'

9 7/8", 0'-100' steel casing, 560'-570' 2" core. Bedrock at 363'. Total depth = 570'.

LOCATION DESCRIPTION.

LOCATION DESCRIPTION:					
Depth	Visual % Lith	Drilling Time Scale: min	Sample Type and Interval		Lithologic Description
5	000000HH::V	8	0'-560' cuttings	* Note:	In the following descriptions, grains are true formational grains. Cuttings have been broken or chipped by the drill bit and do not represent the true size and shape of grains within the formation.
10	++++/>	4		0'-35'	SURFICIAL ALLUVIUM: Unwashed samples throughout the interval are grayish orange (10YR 7/4) due to clay and silt content. Washed samples are 80% dark gray due to carbonate clasts and 20% multicolor from
15	HHHHVV::://O	4			siltstones and volcanic clasts. Average cutting and grain size is 0.5 mm (0.2 inches), cuttings and grains range in size from 1 mm (0.04 inches) to 20 mm (0.75 inches). Grains in sample are rounded to subrounded, cuttings are blocky angular to
20	++++vv = 777	7			angular chips. The lithology is an unconsolidated to poorly-consolidated gravelly alluvium with low clay content. Some hard caliche layers are present near the surface. The alluvium contains clasts
25	# # # # # V V V Z Z S	6			of light to dark gray (N7 to N2) limestone and dolomite, white (N9) rhyolite with some iron staining, greenish gray (5GY 6/1) andesite, dusky red (5R 3/4) to dark reddish brown (10R 3/4) siltstone, transpa-
30		4		25'-35'	rent to milky gray quartzite. Clay lens, significant increase in clay content in cuttings.
35	++++VV:==ZZ:	6		35'-365'	GRAVELLY ALLUVIUM (Santa Fe Group): Unwashed samples are moderate orange pink (5YR 8/4) to light brown (5YR 6/4) in clay-
40	######VV///Z	4			rich zones and light gray (N7) to medium dark gray (N4) in zones containing little clay. Cutting and grain sizes range throughout interval from silt-size to 25 mm (1.0 inch). Grains from alluvium are
45	++++vv///==:	2.5			subangular to rounded, whereas cuttings are subangular to angular. Numerous grains and cuttings throughout the interval have a caliche coating. The lithology is a poorly- to well-consolidated pebble to
50	+++VV/==== 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	3			cobble conglowerate. It contains clasts of light gray (N7) to dark gray (N3) limestone, light gray (N7) dolomite, dirty white to white (N9) rhyolite with some iron
	, vo.				

LOCATION ID: BLM-5-527 Page <u>5</u> of <u>9</u>						
Depth	Visual % Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description		
245	++++VVVV	4				
250	+++++VVVVX:://	4				
255	++++vvvvz// 4 · · ·	4.5				
260	11111VVVV://a 2 4 a	4		•		
265	+++++VVVV: 7/ (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6				
270	+ + + + + + + + + + + + + + + + + + +	4,5				
275	######VVV@Z	4				
280	HHHHHVVV37/4	18				
285	1 11 1 1 V V V V 1 2 2	5				
290	####VMVV:://p: 4. v.A	6				
295	++++vvvvv: Z	7				
300	H 111 H V V V V R R R R R R R R R R R R R R R	15		300'-350' Significant decrease in cutting size to an average of ≤ 1 mm (0.04 inches). Cuttings so small that visual percentage is very		
305	++++VVVV: <u>*</u>	5.5		hard to estimate.		
310	++++++vvvvv=zz	7				
	9.0 0 0 0 0 0 0					